PTO/S8/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Une	der the Paperwork Red	uction A	ct of 1995, no persons ar	e required to respond to a collection	of information unless it contains a valid OMB control nun	ber.			
Substitute for form 1449/PTO					Compl te if Known				
Substitute for form 1445% 10				Applicati n Number					
INF	ORMATION	DIS	CLOSURE	Filing Date					
STATEMENT BY APPLICANT				First Named Inventor	Yong Zhou				
	(Use as many she	n se sto	arassarv)	Art Unit					
	(Oso as many sno			Examiner Name					
Sheet	2	of	3	Attorney Docket Number	130755				

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	Y. ZHOU and R. FRAYNE; Contrast-enhanced MR Thermometry; Proc Intl Soc Magn Reason Med 7 (1999); 1933; Department of Medical Physics and Radiology, University of Wisconsin - Madison, Madison, WI 53792-3252	
	2	CT. GERMER, et al; Laser-induced thermotherapy for the tratment of liver metastasis; Surgical Endoscopy; (1998) 1: 1317-1325	
	3	HANS-JOACHIM SCHWARZMAIRE, THOMAS KAHN; Magnetic Resonance Imaging of Microwave Induced Tissue Heating; 1995; MRM 33:729-731	
	4	A. VITKIN, et al.; Magnetic resonance imaging of temperature changes during interstitial microwave heating: A phantom study; American Association of Physicists in Medicine; Vol. 24, No. 2, February 1997; pp 269-277	
	5	ALISTAIR S. HALL, et al; Observation by MR Imaging of In Vivo Temperature Changes Induced Radio Frequency Hyperthermia; Journal of Computer Assisted Tomography; May/June 1990; pp 430-436; Raven Press, Ltd., New York	
	6	PAUL STEINER, MD, et al; Monitoring of Radio Frequency Tissue Ablation in an Interventional Magnetic Resonance Environment: Preliminary Ex Vivo and In Vivo Results; Investigative Radiology; Vol 32(11); November 1997; pp 671-678	
	7	HARVEY E. CLINE, et al; MR Temperature Mapping of Focused Ultrasound Surgery; pp328-636; MRM 31 (1994)	
<del></del>	8	BRUNO QUESSON, PhD, et al; Magnetic Resonance Temperature Imaging for Guidance of Thermotherapy; Journal of Magnetic Resonance Imaging; 12: 525-533 (2000)	
	9	I.R. YOUNG, et al; Further Observations on the Measurement of Tissue T1 to Monitor Temperature in Vivo by MRI; MRM 31: 342-345 (1994)	
	10	DENIS LE BIHAN, MD, PhD, et al; Temperature Mapping with MR Imaging of Molecular Diffusion: Application to Hyperthermia; Therapeutic Radiology; pp 853-857; Vol. 171, Num 3	

Examiner	Date	
Signature	Considered	]

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Linder the Penerwark Reduction Act of 1995, no persons are required to respond to

	te for form 1449/PTO		a or 1995, no persons ar	Compl te if Known			
Jupstitu	10 10 10 11 1443/-10			Application Numb r	\		
INF	ORMATION	DIS	CLOSURE	Filing Date			
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Yong Zhou		
				Art Unit			
	(Use as many she	ets as n	ecessary)	Examiner Name			
Sheet	3	of	3	Attorney Docket Number	130755		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	11	T. V. SAMULSKI, et al; Non-invasive thermometry using magnetic resonance diffusion imaging: potential for application in hyperthermic oncology; Int. J. Hyperthermia, 1992, Vol. 8, No. 6, 819-829	
	12	YASUTOSHI ISHIHARA, et al; A Precise and Fast Temperature Mapping Using Water Proton Chemical Shift; MRM 34:814-823 (1995); Toshiba R&D Center, Kawasaki, 210 Japan; Faculty of Engineering, Osaka City Universty, Osaka, 558 Japan	
!	13	JOHN DE POORTER, et al; Noninvasive MRI Thermometry with the Proton Resonance Frequency (PRF) Mehtod: In Vivo Results in Human Muscle; MRM 33:74-81 (1995);	
	14	JOHN DE POORTER; Noninvasive MRI Thermometry with the Proton REsonance Frequency Mehtod: Study of Susceptibility Effects; MRM 34:359-367 (1995)	
	15	IAN R. YOUNG, et al; An Evaluation of the Effects of Susceptibility Changes on the Water Chemical Shift Method of Temperature Measurement in Human Peripheral Muscle; MRM 36:366-374 (1996)	
	16	ROBERT D. PETERS, et al; Ex Vivo Tissue-Type Independence in Proton-Resonance Frequency Shift MR Thermometry	
	17	ROBERT D. PETERS, et al; Heat-Source Orientation and Geomerty Dependence in Proton-Resonance Frequency Shift Magnetic Resonance Thermometry; Magnetic Resonance in Medicine 41:909-918(1996)	
	18	ROBERT D. PETERS, et al, Proton-Resonance Frequency Shift MR Thermometry Is Affected by Changes in the Electrical Conductivity of Tissue; Magnetic Resonance in Medicine 43:62-71 (2000)	
	19	WALDEMAR WLODARCZYK, PhD; et al; Three-Dimensional Monitoring of Small Temperature Changes for Therapeutic Hyperthermia Using MR; JMRI January/February 1998; pp 165-174	

Examiner	Date	
Signature	Considered	ĺ

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Substitute for form 1449/PTO				Compl te if Known		
	Substitute for form 1443/1 TO				Application Number		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Filing Date		
					First Named Inventor	Yong Zhou	
					Art Unit		
(Use as many sheets as necessary)				necessary)	Examiner Name		
S	heet	1	of	3	Attorney Docket Number	130755	

			U. S. PATEN	T DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> 6,377,834	04-23-2002	Zhou, et al.	
		US-			
	ļ	US-			
	<del>                                     </del>	US-			
	1	US-			
		US-	-		
	<del> </del>	US-			
	<del> </del>	US-			
		US-	<del> </del>		
	1	US-			
		US-			
		US-	1	<u> </u>	
		US-	1		
	<b></b>	US-	<del>- </del>	<del> </del>	
	<del> </del>	US-		<del> </del>	<del></del>

		FORE	<b>GN PATENT DOCU</b>	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	}
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	[
						L
						L
						L
						L
						Γ

Examiner	Date	
Signature	Considered	ĺ

\*EXAMINEER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gog/">www.uspto.gog/</a> or MPEP 901.04. There of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WiPO Standard ST.15 if possible. Applicant is to place a check mark here if English language Translation is attached.

Transiarum is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 2331-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.